

Serial No. 09/665,122
Amendment dated July 21, 2004

Atty. Docket No. 249/216
Reply to Office action of Apr. 22, 2004

AMENDMENTS TO THE CLAIMS

Following is a listing of all claims in the present application, which listing supersedes all previously presented claims:

Listing of the Claims:

1. (Currently Amended) A ferroelectric emitter, comprising:
a lower electrode;
a ferroelectric layer, having a top surface with two end portions, overlies the lower electrode;
an insertion electrode formed on a region excluding the two end portions of the top surface of the ferroelectric layer;
a dielectric layer having a predetermined pattern is formed along the top surface of the ferroelectric layer and the insertion electrode to encapsulate the insertion electrode; and
a dummy upper electrode formed on a side of the dielectric layer opposite the ferroelectric layer.
2. (Original) The ferroelectric emitter as claimed in claim 1, wherein the dielectric layer has a top surface with two end portions and the predetermined pattern is formed along the top surface of the dielectric layer excluding the two end portions.
3. (Currently Amended) The ferroelectric emitter as claimed in claim 1, wherein the dummy upper electrode is easily separable from the dielectric layer.

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4. (Original) The ferroelectric emitter as claimed in claim 1, wherein the dummy upper electrode is formed on a region of the dielectric layer excluding the patterned portion thereof.

5. (Currently Amended) A ferroelectric emitter, comprising:
a lower electrode;
a ferroelectric layer, having a top surface with two end portions, overlies the lower electrode;
an insertion electrode formed on a region excluding the two end portions of the top surface of the ferroelectric layer;
a first dielectric layer having side edges and a top surface is formed along the top surface of the ferroelectric layer and the insertion electrode to encapsulate the insertion electrode, the side edges being projected;
a second dielectric layer formed along the top surface of the first dielectric layer excluding the projected edges; and
a dummy upper electrode formed on one projected side of the first dielectric layer.

6. (Original) The ferroelectric emitter as claimed in claim 5, wherein a dielectric constant of the first dielectric layer is higher than a dielectric constant of the second dielectric layer.

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7. (Currently Amended) The ferroelectric emitter as claimed in claim 5, wherein the dummy upper electrode is readily separable from the first dielectric layer.